



## ADSORBSIA™ As600 Titanium Based Media

A titanium oxide adsorbent for the removal of arsenic, lead, and other heavy metals

### Typical Physical and Chemical Properties

Product Type		Granulated Titanium oxide media
Particle size range	Micron (Mesh)	250-1180 (16-60)
On 1180 Micron (16 mesh)	%	<10
Through 250 micron (60 mesh)	%	<10
Moisture Content	%	<10
Bulk Density	g/L (Lb/ft <sup>3</sup> )	640 (40)
Specific surface area	m <sup>2</sup> /g	250
	cc/g	0.39

### Typical Properties and Applications

ADSORBSIA™ As600 media is an easy to use granular titanium oxide with strong affinity for arsenic, lead and other heavy metals. This distinct media is designed for non-regenerative applications. The inherently high adsorptive capacity of Dow's titanium oxide based technology has been formulated into a mechanically stable granulation suitable for use in a broad range of potable water applications. Because it is based on titanium, ADSORBSIA As600 does not support bacterial growth as will iron based media.

When exhausted, it is removed from the vessel and replaced with new media. Spent media from arsenic loading tests have been shown to pass the U.S. Environmental Protection Agency's TCLP extraction protocol as well as both the WET and TTLC tests for California. ADSORBSIA As600 media is NSF/ANSI 61 certified.

### Recommended Operating Conditions

Flow Direction	Down Flow
Minimum Bed Depth	61 cm (24 in)
Backwash Rate	7 -12m/h (3-5 gpm/ft <sup>2</sup> )
Backwash Volume	5-10 BV
Service Rate	12-17 m/h (5-7 gpm/ft <sup>2</sup> )
Empty Bed Contact Time (EBCT)	3.0 min.
Maximum Feed Temperature	65°C (150°F)

Figure 1. Backwash expansion data.

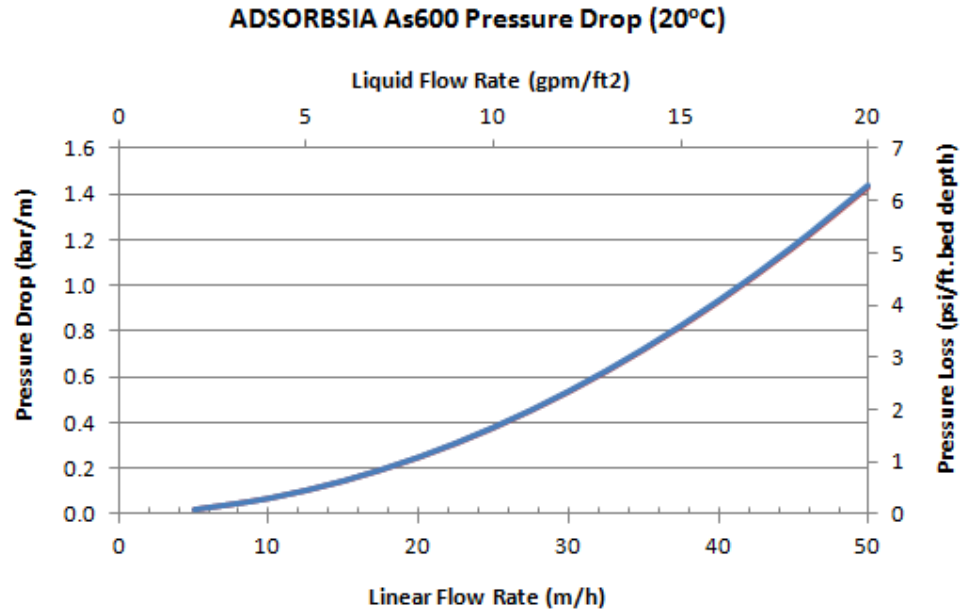
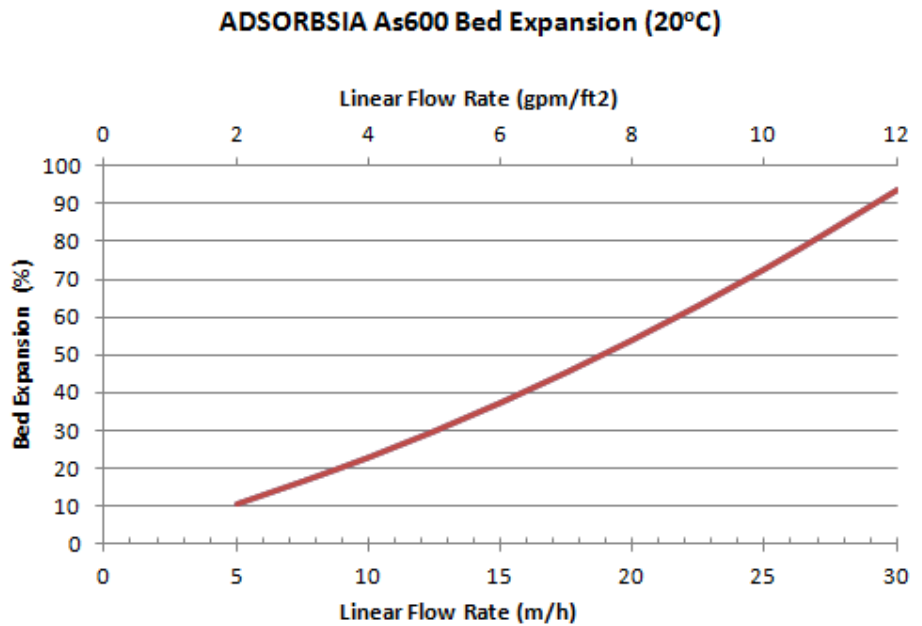


Figure 2. Pressure drop as a function of feed rate.



Note: This product may be subject to drinking water application restrictions in some countries; please check the application status before use and sale.

Handling Precautions	Before using this product, consult the Material Safety Data Sheet (MSDS)/Safety Data Sheet (SDS) for details on product hazards, recommended handling precautions and product storage.
Storage	Store products in tightly closed original containers at temperatures recommended on the product label.
Disposal Considerations	<p>Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.</p> <p>It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Water and Process Solutions Technical Representative for more information.</p>
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**For more information about DOW™ resins, call the Dow Water & Process Solutions business:**  
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Latin America: (+55) 11-5188-9222  
Europe: 800 3 694 6367  
Italy: 800 783 825  
South Africa: 0800 99 5078  
Pacific: +800 7776 7776  
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